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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,147	01/25/2007	Tomoyasu Sunaga	17155/005001	6796
22511 OSHA LIANG	7590 09/23/201 L.L.P	EXAMINER		
TWO HOUST	ON CENTER		BOHATY, ANDREW K	
909 FANNIN, HOUSTON, T			ART UNIT	PAPER NUMBER
,			1786	
			NOTIFICATION DATE	DELIVERY MODE
			09/23/2011	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@oshaliang.com hathaway@oshaliang.com kennedy@oshaliang.com

## Advisory Action Before the Filing of an Appeal Brief

1	Application No.	Applicant(s)		
	10/589,147	SUNAGA ET AL.		
	Examiner	Art Unit		
	ANDREW K. BOHATY	1786		

	CXAIIIIIEI	ALCOIN			
	ANDREW K. BOHATY	1786			
The MAILING DATE of this communication appe	ears on the cover sheet with the o	orrespondence add	ress		
THE REPLY FILED 14 September 2011 FAILS TO PLACE THI	S APPLICATION IN CONDITION F	OR ALLOWANCE.			
<ol> <li>\(\times\) The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appl for Continued Examination (RCE) in compliance with 37 C periods:</li> </ol>	the same day as filing a Notice of A replies: (1) an amendment, affidavite eal (with appeal fee) in compliance CFR 1.114. The reply must be filed	Appeal. To avoid abar t, or other evidence, v with 37 CFR 41.31; or	which places the r (3) a Request		
a) The period for reply expiresmonths from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. I no event for reply expires period for reply expires talter than SIX MONTHS from the mailing date of the final rejection.					
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07	f).				
Extensions of time may be obtained under 37 CFR 1.198(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earmed patient term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL.	tension and the corresponding amount of shortened statutory period for reply origing than three months after the mailing dat	of the fee. The appropria	ate extension fee e action; or (2) as		
<ol> <li>The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed w</li> </ol>	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of appeal. Since a		
<u>AMENDMENTS</u>					
The proposed amendment(s) filed after a final rejection, I  a) They raise new issues that would require further coi  (b) They raise the issue of new matter (see NOTE belo  (c) They are not deemed to place the application in bet	nsideration and/or search (see NOT w);	E below);			
appeal; and/or (d) They present additional claims without canceling a	, ,		ie issues ioi		
NOTE: (See 37 CFR 1.116 and 41.33(a)).	, , ,				
<ul> <li>4.  The amendments are not in compliance with 37 CFR 1.1;</li> <li>5.  Applicant's reply has overcome the following rejection(s)</li> </ul>		mpliant Amendment (	PTOL-324).		
Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	nt canceling the		
7. \( \subseteq  for purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:	□ will not be entered, or b) 🛛 will rided below or appended.	be entered and an e	xplanation of		
AFFIDAVIT OR OTHER EVIDENCE					
<ol> <li>The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>					
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary</li> </ol>	vercome all rejections under appea	l and/or appellant fail	s to provide a		
10. The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER		•			
<ol> <li>The request for reconsideration has been considered bu <u>See Continuation Sheet.</u></li> </ol>		condition for allowan	ce because:		
12. Note the attached Information Disclosure Statement(s).  13. Other:	(PTO/SB/08) Paper No(s)				
/Jennifer A Chriss/ Supervisory Patent Examiner, Art Unit 1786	/A. K. B./ Patent Examiner, Art Un	it 1786			

Continuation of 11. does NOT place the application in condition for allowance because: the amendment was entered because the amendment does not change scope of the claimed previously searched and considered. Also, the amendment overcomes the objection of the specification that the title is not descriptive as set forth in the Office action mailed July 14, 2011,

Applicant's arguments filed September 14, 2011 have been fully considered but they are not persuasive.

In response to the applicant's arguments that the chlorine content to the amount of metal compounds is a critical factor, the applicant has not provided any evidence to support this statement. When one looks at Tables 1, 2, and 3 in the applicant's specification, it is clearly seen that when each type of impurity is at its lowest amount the maximum current efficiency is at the highest value. This corresponds to sample 1 in Table 1, sample 7 in Table 2, and sample 13 in Table 3. These results show that compounds that have the lowest amount of impurities have the or reatest current efficiency. This across with the boosition of the examiner and is not unexpected.

Furthermore, when looking at samples 1-3 in Table 1, one cannot determine if it is the total amount of impurities present causing the decrease in current efficiency or if it is due to the amount of metal ions being less than the amount of Clions. In samples 1-3 not only does the amount of each ion changes but the total amount of ions present changes; therefore, one cannot conclude what is causing the change in maximum current efficiency. Therefore, no cannot determine what is causing the abplicant's results.

When comparing samples 4 and 6 in Table 1, the difference in current efficiency is very small and the sample where the total amount of metal lons is greater than chloride ions actually has a greater current efficiency; therefore, having the total amount of metal ions be greater than the total amount of chloride ions might not be the cause in the increased current efficiency. When looking at Table 1, it appears that the samples with the lowest amount of impurities has the highest current efficiency and it is hard to tell what rolls the amount of total metal ions to chlorides ions has on the current efficiency in data presented by the applicant. Therefore, the applicants arguments that he invention shows unexpected results is not persuasive because one cannot tell from the data presented what is causing the improved performance.

Also, 2144.04 section VII of the MPEP states "Pure materials are novel vis- a-vis less pure or impure materials because there is a difference between pure and impure materials. Therefore, the issue is whether claims to a pure material are unobvious over the prior art. In re Bergstrom, 427 F.2d 1394, 166 USPQ 256 (CCPA 1970). Purer forms of known products may be patentable, but the mere purity of a product, by itself, does not render the product unobvious. Ex parte Gray, 10 USPQ2d 1922 (Ed. Pat App, & Inter. 1989)." Since the applicants are not render the product unobvious. Ex parte Gray, 10 USPQ2d 1922 (Ed. Pat App, & Inter. 1989). "Since the applicants, since the caliemed polymers are known in the art and are purer forms of the known polymers, the claims are not unobvious over the prior art and are not patentable. Since the applicant's have not provided evidence that can clearly show that there claimed invention shows unexpected results, since the claimed polymers are known in the art and are purer forms of the known polymers, the claims are not unobvious over the prior art and are not patentable. The applicant's results are not unobvious over the prior art and are not patentable. The applicant's results are not unobvious over the prior art and are not patentable. The applicant's results are not unobvious fixed to the efficiency of the device to increase as the amount of the impurities decreases and this is what the applicant shows in the examples.